

FORM PTO-1449

JUN 09 2004

INFORMATION DISCLOSURE STATEMENT

TRADEMARK OFFICE

ATTY. DOCKET NO.
0942.5580002/BJD/JKMAPPLICATION NO.
10/655,579FIRST NAMED INVENTOR
Park et al.FILING DATE
September 5, 2003ART UNIT
1634

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SKM	AA1	4,683,195	07/28/1987	Mullis et al.			02/07/1986
	AB1	4,683,202	07/28/1987	Mullis			10/25/1985
	AC1	4,800,159	01/24/1989	Mullis et al.			12/17/1986
	AD1	4,889,818	12/26/1989	Gelfand et al.			06/17/1987
	AE1	4,965,188	10/23/1990	Mullis et al.			06/17/1987
	AF1	5,047,342	09/10/1991	Chatterjee			08/10/1989
	AG1	5,079,352	01/07/1992	Gelfand et al.			05/15/1990
	AH1	5,223,409	06/29/1993	Ladner et al.			03/01/1991
	AI1	5,244,797	09/14/1993	Kotewicz et al.			03/18/1991
	AJ1	5,270,179	12/14/1993	Chatterjee			01/28/1992
↓	AK1	5,338,671	08/16/1994	Scalice et al.			10/07/1992

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
SKM	AL1	EP 0 329 822	06/08/1994	Europe			Yes No
↓	AM1	EP 0 684 315	06/26/2002	Europe			Yes No
	AN1	WO 89/06691	07/27/1989	WIPO			Yes No
↓	AO1	WO 90/02809	03/22/1990	WIPO			Yes No
	AP1	WO 91/09944	07/11/1991	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	1	Alani, E., et al., "Characterization of DNA-binding and Strand-exchange Stimulation Properties of γ -RPA, a Yeast Single-strand-DNA-binding Protein," <i>J. Mol. Biol.</i> 227:54-71, Academic Press Ltd. (1992).
	AS	1	Barbas III, C.F., et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," <i>Proc. Natl. Acad. Sci.</i> 88:7978-7982, National Academy of Sciences (1991).
↓	AT	1	Barnes, W.M., "The fidelity of <i>Taq</i> polymerase catalyzing PCR is improved by an N-terminal deletion," <i>Gene</i> 112:29-35, Elsevier Science B.V. (1992).

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/Stephanie Mummert/ (08/03/2006)	08/03/2006

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SKM	AA2	5,374,553	12/20/1994	Gelfand <i>et al.</i>			08/13/1990
	AB2	5,409,818	04/25/1995	Davey <i>et al.</i>			06/24/1988
	AC2	5,436,149	07/25/1995	Barnes			02/19/1993
	AD2	5,449,603	09/12/1995	Nielson <i>et al.</i>			10/24/1989
	AE2	5,455,166	10/03/1995	Walker			01/09/1992
	AF2	5,512,462	04/30/1996	Cheng			02/25/1994
	AG2	5,532,600	07/02/1996	Hoshino			10/27/1994
	AH2	5,605,824	02/25/1997	Nielson <i>et al.</i>			06/16/1993
	AI2	5,614,365	03/25/1997	Tabor <i>et al.</i>			11/10/1994
↓	AJ2	5,646,019	07/08/1997	Nielson <i>et al.</i>			04/07/1994
↓	AK2	5,587,287	12/24/1996	Scalice <i>et al.</i>			04/07/1994

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SKM	AL2	WO 91/09950	7/11/1991	WIPO			Yes No
	AM2	WO 91/17271	11/14/1991	WIPO			Yes No
	AN2	WO 92/01047	01/23/1992	WIPO			Yes No
↓	AO2	WO 92/03556	03/05/1992	WIPO			Yes No
↓	AP2	WO 92/06188	04/16/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	2	Barns, S.M., <i>et al.</i> , "Perspectives on archaeal diversity, thermophily and monophyly from environmental rRNA sequences," <i>Proc. Natl. Acad. Sci.</i> 93:9188-9193, National Academy of Sciences (1996).
	AS	2	Brown, J.P., <i>et al.</i> , "Structural Characterization of Human Melanoma-Associated Antigen p97 with Monoclonal Antibodies," <i>J. Immunol.</i> 127:539-546, American Association of Immunologists (1981).
↓	AT	2	Brown, J.P., <i>et al.</i> , "Protein Antigens of Normal and Malignant Human Cells Identified by Immunoprecipitation with Monoclonal Antibodies," <i>J. Biol. Chem.</i> 255:4980-4983, American Society of Biological Chemists (1980).

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		FIRST NAMED INVENTOR Park <i>et al.</i>	FILING DATE September 5, 2003
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SKM	AA3	5,605,824	02/25/1997	Nielson <i>et al.</i>			06/16/1993
	AB3	5,773,257	06/30/1998	Nielson <i>et al.</i>			06/06/1995
↓	AC3	5,972,650	10/26/1999	Yao			06/26/1997
	AD3	6,077,664	06/20/2000	Slater <i>et al.</i>			05/31/1996
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
SKM	AL3	WO 92/06200	04/16/1992	WIPO			Yes No
	AM3	WO 92/09690	06/11/1992	WIPO			Yes No
	AN3	WO 92/15679	09/17/1992	WIPO			Yes No
↓	AO3	WO 92/18619	10/29/1992	WIPO			Yes No
	AP3	WO 92/20791	11/26/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	3	Chédin, F., <i>et al.</i> , "Novel homologs of replication protein A in Archaea: implications for the evolution of ssDNA-binding proteins," <i>Trends Biochem. Sci.</i> 23:273-277, Elsevier Science (1998).
	AS	3	Chou, Q., "Minimizing deletion mutagenesis artifact during <i>Taq</i> DNA polymerase PCR by <i>E. coli</i> SSB," <i>Nucl. Acids Res.</i> 20:4371, IRL Press (1992).
↓	AT	3	Chou, Q., <i>et al.</i> , "Prevention of pre-PCR mis-priming and primer dimerization improves low-copy-number amplifications," <i>Nucl. Acids Res.</i> 20:1717-1723, Oxford University Press (1992).

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SKM	AL4	WO 93/01288	01/21/1993	WIPO			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	AM4	WO 94/26766	11/24/1994	WIPO			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	AN4	WO 96/10640	04/11/1996	WIPO			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
↓	AO4	WO 97/09451	03/13/1997	WIPO			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
↓	AP4	WO 98/47912	10/29/1998	WIPO			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	4	Clackson, T., et al., "Making antibody fragments using phage display libraries," <i>Nature</i> 352:624-628, Macmillan Ltd. (1991).
	AS	4	Cole, S.P.C., et al., "The EBV-Hybridoma Technique and Its Application to Human Lung Cancer," <i>Monoclonal Antibodies and Cancer Therapy</i> 77-96, Alan R. Liss, Inc. (1985).
↓	AT	4	Dabrowski, S., and Kur, J., "Cloning, Overexpression, and Purification of the Recombinant His-Tagged SSB Protein of <i>Escherichia coli</i> and Use in Polymerase Chain Reaction Amplification," <i>Protein Expr. Purif.</i> 16:96-102, Academic Press (1999).

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SKM	AL5	WO 00/52027	09/08/2000	WIPO			Yes No
↓	AM5	WO 01/02559	01/11/2001	WIPO			Yes No
↓	AN5	WO 02/19822	03/14/2002	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	5	Ewing, B., et al., "Base-Calling of Automated Sequencer Traces Using <i>Phred</i> . I. Accuracy Assessment," <i>Genome Res.</i> 8:175-185, Cold Spring Harbor Laboratory Press (1998).
↓	AS	5	Ewing, B., et al., "Base-Calling of Automated Sequencer Traces Using <i>Phred</i> . II. Error Probabilities," <i>Genome Res.</i> 8:186-194, Cold Spring Harbor Laboratory Press (1998).
↓	AT	5	Flaman, J-M., et al., "A rapid PCD fidelity assay," <i>Nucl. Acids Res.</i> 22:3259-3260, Oxford University Press (1994).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	6	Fujii, S., et al., "DNA Replication Errors Produced by the Replicative Apparatus of <i>Escherichia coli</i> ," <i>J. Mol. Biol.</i> 289:835-850, Academic Press (1999).
	AS	6	Fuchs, P., et al., "Targeting Recombinant Antibodies to the Surface of <i>Escherichia coli</i> : Fusion to a Peptidoglycan Associated Lipoprotein," <i>Bio/Technology</i> 9:1369-1372, Nature America Inc. (1991).
↓	AT	6	Galfre, G., et al. "Antibodies to major histocompatibility antigens produced by hybrid cell lines," <i>Nature</i> 266:550-552, Macmillan Ltd. (1977).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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SKM	AR	7	Garrard, L.J., et al., "F _{AB} Assembly and Enrichment in a Monovalent Phage Display System," <i>Bio/Technology</i> 9:1373-1377, Nature America Inc. (1991).
	AS	7	Gefter, M.L., et al., "A Simple Method for Polyethylene Glycol-Promoted Hybridization of Mouse Myeloma Cells," <i>Somatic Cell Genet.</i> 3:231-236, Plenum Publishing Corp. (1977).
↓	AT	7	Gerard, G.F., et al., "cDNA Synthesis by Moloney Murine Leukemia Virus RNase H-Minus Reverse Transcriptase Possessing Full DNA Polymerase Activity," <i>FOCUS</i> 14:91-93, Life Technologies, Inc. (1992).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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SKM	AR	8	Glover, B.P., and McHenry, C.S., "The $\chi\psi$ Subunits of DNA Polymerase III Holoenzyme Bind to Single-stranded DNA-binding Protein (SSB) and Facilitate Replication of an SSB-coated Template," <i>J. Biol. Chem.</i> 273:23476-23484, The American Society for Biochemistry and Molecular Biology, Inc. (1998).
	AS	8	Gram, H., et al., "In vitro selection and affinity maturation of antibodies from a naïve combinatorial immunoglobulin library," <i>Proc. Natl. Acad. Sci.</i> 89:3576-3580, National Academy of Sciences (1992).
↓	AT	8	Griffiths, A.D., et al., "Human anti-self antibodies with high specificity from phage display libraries," <i>EMBO J.</i> 12:725-734, Oxford University Press (1993).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
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SKM	AR	9	Gubler, U., and Hoffman, B.J., "A simple and very efficient method for generating cDNA libraries," <i>Gene</i> 25:263-269, Elsevier Science (1983).
	AS	9	Haseltine C.A., and Kowalczykowski, S.C., "A distinctive single-stranded DNA-binding protein from the Archaeon <i>Sulfolobus solfataricus</i> ," <i>Mol. Microbiol.</i> 43:1505-1515, Blackwell Science Ltd. (2002).
↓	AT	9	Hawkins, R.E., et al., "Selection of Phage Antibodies by Binding Affinity Mimicking Affinity Maturation," <i>J. Mol. Biol.</i> 226:889-896, Academic Press Ltd. (1992).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	10	Hay, B.N., et al., "Bacteriophage cloning and <i>Escherichia coli</i> expression of a human IgM Fab," <i>Hum. Antibod. Hybridomas</i> 3:81-85, Butterwoth-Heinemann (1992).
	AS	10	Hoogenboom, H.R., et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," <i>Nucl. Acids Res.</i> 19:4133-4137, Oxford University Press (1991).
↓	AT	10	Huse, W.D., et al., "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda," <i>Science</i> 246:1275-1281, American Association for the Advancement of Science (1989).

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	AO						Yes No
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SKM	AR	11	Kelly, T.J., et al., "Identification and characterization of a single-stranded DNA-binding protein from the archaeon <i>Methanococcus jannaschii</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 95:14634-14639, National Academy of Sciences (1998).
	AS	11	Kennett, R.H., et al., "Monoclonal Antibodies against Human Tumor-Associated Antigens," in <i>Monoclonal Antibodies; Hybridomas: A New Dimension In Biological Analyses</i> , Kennett, R.H., et al., eds., Plenum Press., New York, N.Y., pp. 155-168 (1980).
↓	AT	11	Kim, Y.T., et al., "Interactions of Gene 2.5 Protein and DNA Polymerase of Bacteriophage T7," <i>J. Biol. Chem.</i> 267:15032-15040, American Society for Biochemistry and Molecular Biology, Inc. (1992).

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SKM	AR	<u>12</u>	Kim, Y.T., and Richardson, C.C., "Acidic Carboxy-terminal Domain of Gene 2.5 Protein of Bacteriophage T7 is Essential for Protein-Protein Interactions," <i>J. Biol. Chem.</i> 269:5270-5278, American Society for Biochemistry and Molecular Biology, Inc. (1994).
	AS	<u>12</u>	Klenk, H-P., et al., "The complete genome sequence of the hyperthermophilic, sulphate-reducing archaeon <i>Archaeoglobus fulgidus</i> ," <i>Nature</i> 390:364-378, Macmillan Ltd. (1997).
↓	AT	<u>12</u>	Köhler, G., and Milstein, C., "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> 256:495-497, Macmillan Ltd. (1975).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	13	Kotewicz, M.L., et al., "Isolation of cloned Moloney murine leukemia virus reverse transcriptase lacking ribonuclease H activity," <i>Nucl. Acids Res.</i> 16:265-277, IRL Press (1988).
	AS	13	Kozbor, D., and Roder, J.C., "The production of monoclonal antibodies from human lymphocytes," <i>Immunol. Today</i> 4:72-79, Elsevier Biomedical Press (1983).
↓	AT	13	Lackovich, J.K., et al., "Measuring Fidelity of Platinum® Pfx DNA Polymerase," <i>Focus</i> 23:6-7, Life Technologies (2001).

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FORM PTO-1449

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SKM	AR	<u>14</u>	Lawyer, F.C., et al., "High-level Expression, Purification, and Enzymatic Characterization of Full-length <i>Thermus aquaticus</i> DNA Polymerase and a Truncated Form Deficient in 5' to 3' Exonuclease Activity," <i>PCR Meth. Appl.</i> 2:275-287, Cold Spring Harbor Laboratory Press (1993).
	AS	<u>14</u>	Lee, J., et al., "Coordinated Leading and Lagging Strand DNA Synthesis on a Minicircular Template," <i>Mol. Cell</i> 1:1001-1010, Cell Press (1998).
↓	AT	<u>14</u>	Lerner, E.A., "How to Make a Hybridoma," <i>Yale J. Biol. Med.</i> 54:387-402, Yale Journal of Biology and Medicine Inc. (1981).

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SKM	AR	<u>15</u>	Maniatis, T., et al., "The Isolation of Structural Genes from Libraries of Eucaryotic DNA," <i>Cell</i> 15:687-701, MIT (1978).
	AS	<u>15</u>	McCafferty, J., et al., "Phage antibodies: filamentous phage displaying antibody variable domains," <i>Nature</i> 348:552-554, Macmillan Ltd. (1990).
↓	AT	<u>15</u>	Murzin, A.G., "OB (oligonucleotide/oligosaccharide binding)-fold: common structural and functional solution for non-homologous sequences," <i>EMBO J.</i> 12:861-867, Oxford University Press (1993).

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		FIRST NAMED INVENTOR Park et al.	
		FILING DATE September 5, 2003	ART UNIT 1634

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SKM	AR	16	Okayama, H., and Berg, P., "High-Efficiency Cloning of Full-Length cDNA," <i>Mol. Cell. Biol.</i> 2:161-170, American Society for Microbiology (1982).				
	AS	16	Philipova, D., et al., "A hierarchy of SSB protomers in replication protein A," <i>Genes Dev.</i> 10:2222-2233, Cold Spring Harbor Laboratory Press (1996).				
↓	AT	16	Rapley, R., "Enhancing PCR Amplification and Sequencing Using DNA-Binding Proteins," <i>Mol. Biotechnol.</i> 2:295-298, Humana Press (1994).				

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SKM	AR	17	Saiki, R.K., et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487-491, American Association for the Advancement of Science (1988).
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↓	AT	17	Smith, D.R., et al., "Complete Genome Sequence of <i>Methanobacterium thermoautotrophicum</i> ΔH: Functional Analysis and Comparative Genomics," <i>J. Bacteriol.</i> 179:7135-7155, American Society for Microbiology (1997).

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SKM	AR	18	Stemmer, W.P.C., et al., "Single-step assembly of a gene and entire plasmid from large numbers of oligodeoxyribonucleotides," <i>Gene</i> 164:49-53, Elsevier Science B.V. (1995).
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↓	AT	18	Woese, C.R., and Fox, G.E., "Phylogenetic structure of the prokaryotic domain: The primary kingdoms," <i>Proc. Natl. Acad. Sci.</i> 74:5088-5090, National Academy of Sciences (1977).

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SKM	AR	19	Woese, C.R., et al., "Towards a natural system of organisms: Proposal for the domains Archaea, Bacteria, and Eucarya," <i>Proc. Natl. Acad. Sci.</i> 87:4576-4579, National Academy of Sciences (1990).
	AS	19	Yeh, M-Y., et al., "Cell surface antigens of human melanoma identified by monoclonal antibody," <i>Proc. Natl. Acad. Sci.</i> 76:2927-2931, National Academy of Sciences (1979).
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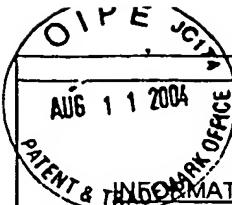
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